CLEAN VERSION OF ABSTRACT

--An encoding apparatus includes a first encoding unit adapted to encode inputted data, an interleaving unit adapted to interleave the inputted data, and a second encoding unit adapted to encode an output of the interleaving unit. The encoding apparatus executes a first encoding algorithm using the first encoding unit, and executes a second encoding algorithm using the first encoding unit, the interleaving unit and the second encoding unit. Furthermore, the encoding apparatus shares the first encoding unit when the encoding apparatus executes the first and second encoding algorithms in parallel.--

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